SCHULTZ

PO Box 2620
Ballston Spa, NY 12020
Ph : 518 885-0060

Letter of Transmittal

To: Chris Williams
VTRANS
61 VALLEY VIEW
MENDON, VT 05701
Ph: (802)786-3812 Fax: (802)786-3810

Transmittal #: 1
Date: 2/10/2015
Job: M117 VTRANS CASTLETON BRF 015-2(10)

Subject: Submittal - Bearings

WE ARE SENDING YOU

- ☑ Attached
- ☐ Under separate cover via the following items:
- ☑ Shop drawings
- ☐ Prints
- ☐ Plans
- ☐ Samples
- ☐ Copy of letter
- ☐ Change order
- ☐ Specifications
- ☐ Other

Document Type	Copies	Date	No.	Description
Submittal	1		1 Rev 0	Bearings BR 93

THESE ARE TRANSMITTED as checked below:

- ☑ For approval
- ☑ For your use
- ☑ As requested
- ☑ For review and comment
- ☐ FOR BIDS DUE
- ☐ Approved as submitted
- ☐ Approved as noted
- ☐ Returned for corrections
- ☐ Other
- ☐ PRINTS RETURNED AFTER LOAN TO US
- ☐ Resubmit ___ copies for approval
- ☐ Submit ___ copies for distribution
- ☐ Return ___ corrected prints

Remarks: Please find attached shop drawings for BR 93 Bearings from our supplier D.S.Brown

Copy To: Jennifer Fitch (VTRANS), KEVIN TURE (W.M. SCHULTZ CONSTRUCTION)

From: MIKE GARN (W.M. SCHULTZ CONSTRUCTION **Signature:**

If enclosures are not as noted, kindly notify us at once.

SCHULTZ

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Submittal

Job: M117
VTRANS CASTLETON BRF 015-2(10)

Spec Section No: 531.17
Submittal No: 1
Revision No: 0
Sent Date: 2/10/2015

Spec Section Title:

Submittal Title: Bearings BR 93

Contractor:
W.M. Schultz Construction, Inc

Contractor's Stamp

SCHULTZ CONSTRUCTION, INC.
CONTRACT NO. BRF 015-2(10)
SUBMITTAL TITLE Bearings
ITEM & SECT. NO. 531.17
LOCATION OF WORK VT RT 30
SUB NO. 1 DATE 2/10/15
REVIEWED BY MG

VTRANS
Chris Williams

Architect's Stamp

Engineer's Stamp

DS Brown Company
300 East Cherry Street
North Baltimore, OH 45872
(419) 257-3561
(419) 257-0332 [Engineering Fax #]

D.S. BROWN
A GIBRALTAR INDUSTRIES COMPANY

Date: February 10, 2015

Wm Schultz Construction, Inc.
Kevin Ture
P.O. Box 2620
Ballston Spa, NY 12020
Telephone #: (518)-885-0060

DSB Project #:	46246-1103-1
Description:	VT Route 30, Bridge 93
Owner Project #:	12B138
County, State:	Rutland County, VT

The following documents are being submitted for:
- ☒ ***Approval***
- ☐ Distribution
- ☐ Per your Request
- ☐ Information

Drawings submitted via:
- ☐ via FedEx
- ☒ ***via e-mail to Kture@wmschultz.com***

# of Copies	Sheet #s	Document Size	Description
1	1	11" x 17"	"Elastomeric Bearing" Shop Drawing

If you have concerns or questions about the content of this submittal, Erica Kelley is the Project Engineer and can be reached at (419) 257-5493 or ekelley@dsbrown.com .

Please forward the enclosed documents to the appropriate party for review. Return the reviewed documents to DS Brown as soon as possible. Note that once drawings are returned, 8-10 weeks will be required for product fabrication. Your assistance in expediting the approval process would be appreciated.

Remarks:
Please return the review documents to LuAnn Hayfield, Engineering Administrator @ (419) 257-3561 or lhayfield@dsbrown.com.

GENERAL NOTES:

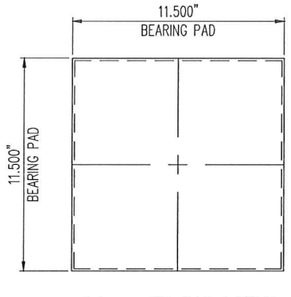
1. MATERIALS SHALL CONFORM TO STATE OF VERMONT, AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, DATED 2011 AND THE LATEST REVISIONS, INCLUDING SUPPLEMENTARY SPECIFICATIONS, CONTRACT PLANS, AND THE SPECIAL PROVISIONS. GENERAL SHOP PRACTICES, STRUCTURAL FABRICATION, WELDING AND ASSEMBLY SHALL BE GOVERNED BY ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE.
2. THIS SHOP DRAWING WAS PREPARED IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS. THE D.S. BROWN COMPANY DOES NOT ACCEPT LIABILITY FOR THE DESIGN OF THE PRODUCTS DETAILED IN THIS SHOP DRAWING.
3. THE D.S. BROWN COMPANY TO SUPPLY ONLY THE PARTS SHOWN ON THIS DRAWING.
4. THE BEARINGS SHALL BE SUBJECT TO RANDOM IN-HOUSE ELASTOMER TESTING AND IN-HOUSE PROOF LOAD TESTING IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 14 (METHOD 'A') AND AASHTO LRFD CONSTRUCTION SPECIFICATIONS SECTION 18.
5. BEARINGS SHALL BE TESTED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
6. WELDING PROCEDURES, IF APPLICABLE, SHALL BE ESTABLISHED BY THE CONTRACTOR TO RESTRICT THE MAXIMUM TEMPERATURE REACHED BY SURFACES IN CONTACT WITH THE ELASTOMER TO 200°F (93°C). TEMPERATURES SHALL BE DETERMINED BY TEMPERATURE INDICATING WAX PENCILS OR OTHER SUITABLE MEANS.
7. ALL STEEL SHALL BE PRODUCED IN THE UNITED STATES OF AMERICA.
8. ALL CORNERS AND EDGES OF STEEL PLATES SHALL BE GROUND TO A 1/16" RADIUS FOR GALVANIZING.
9. ALL EXTERNAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M111 AND M232 (ASTM 123 & 153) SPECIFICATIONS. IN ACCORDANCE WITH SECTION 726.08 OF THE STANDARD SPECIFICATIONS, REPAIR DAMAGED HOT DIPPED GALVANIZING PER ASTM A780, ANNEX A2. THE PAINT USED IN THE REPAIR SHALL BE ORGANIC-ZINC, CONTAINING 92% MINIMUM ZINC BY WEIGHT IN THE DRY FILM. THE PAINT SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS TO A THICKNESS EQUIVALENT TO THE SURROUNDING GALVANIZING.
10. GALVANIZATION LIFTING DEVICES MAY BE WELDED TO PARTS IF NECESSARY. WHEN THEIR USE IS COMPLETE, REMOVE AND GRIND FLUSH ALL CONNECTION LOCATIONS. REPAIR AREA PER ASTM A780, ANNEX A2.
11. BEARING MANUFACTURING FACILITY AND REPRESENTATIVE FOR COORDINATING PRODUCTION:
    THE D.S. BROWN COMPANY
    300 EAST CHERRY STREET
    NORTH BALTIMORE, OHIO 45872
    CSR - MARCIE THOMPSON - (419) 257-3561

MK	QTY	DESCRIPTION	MATERIAL	LENGTH	REMARKS	WT*	REV
1A	18	ELASTOMERIC BEARING	46246.1103.1		16+2 SAMPLES	21	
1a1	18	2.000" X 11.500"	NATURAL RUBBER	11.500"	60+/-5 DURO GR.3	11	
1a2	72	14 GA. X 11.250"	A1011 GR 36	11.250"	PLAIN	3	
1B	16	ADJUSTING SHIM	46246.1107.1			11	
1b1	16	0.250" X 12.500"	A709 GR 36	12.500"	A123-HDG	11	
		*Approx. Gross Wt. Lbs Per Single Unit			2/5/2015 1:45:22 PM		

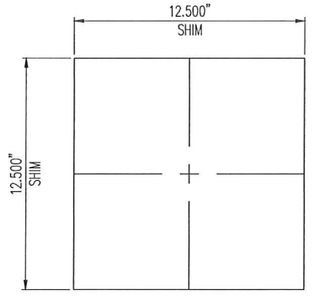
PLEASE VERIFY THAT 14 GA. SHIMS ARE ACCEPTALBE DUE TO FABRICATION CONCERNS

PLEASE VERIFY. PLANS CALL OUT 60 DUROMETER WHILE SPECIAL PROVISIONS CALL OUT 50 DUROMETER AND 110 PSI SHEAR MODULUS.

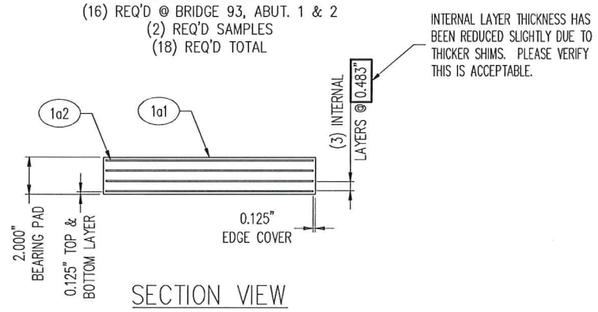
TOLERANCE TABLE	
DESCRIPTION	TOLERANCE (INCHES U.N.O.)
ELASTOMERIC BEARING DESIGN THICKNESS ≤ 1.250"	-0, +0.1181
ELASTOMERIC BEARING DESIGN THICKNESS > 1.250"	-0, +0.2362
ELASTOMERIC BEARING PLAN DIMENSIONS ≤ 36"	-0, +0.2362
ELASTOMERIC BEARING PLAN DIMENSIONS > 36"	-0, +0.4724
THICKNESS OF INDIVIDUAL LAYERS OF ELASTOMER (LAMINATED BEARINGS ONLY) AT ANY POINT WITHIN THE BEARING	±0.1181
VARIATION FROM A PLANE PARALLEL TO THE THEORETICAL SURFACE (AS DETERMINED BY MEASUREMENTS AT THE EDGE OF THE BEARINGS) (PARALLELISM):	
TOP & BOTTOM	±0.005 RAD
SIDES	±0.2362
POSITION OF EXPOSED CONNECTION MEMBERS	±0.1181
ELASTOMERIC COVER: TOP & BOTTOM	-0, +0.1181
ELASTOMERIC COVER: SIDES	-0, +0.1181
ELASTOMERIC BEARING HOLE OR SLOT SIZE	±0.1181
ELASTOMERIC BEARING HOLE OR SLOT LOCATION	±0.1181



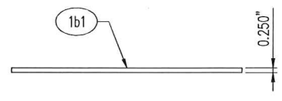
1A - PLAN VIEW
LAMINATED ELASTOMERIC BEARING
DSB ITEM 46246.1103.1
(16) REQ'D @ BRIDGE 93, ABUT. 1 & 2
(2) REQ'D SAMPLES
(18) REQ'D TOTAL



1B - PLAN VIEW
ADJUSTING SHIM
DSB ITEM 46246.1107.1
(16) REQ'D @ BRIDGE 93, ABUT. 1 & 2



SECTION VIEW



SECTION VIEW

REV.	DESCRIPTION	DATE	DET.	CKD.

D.S. BROWN
A GIBRALTAR INDUSTRIES COMPANY
THE D.S. BROWN COMPANY
300 E. CHERRY STREET
NORTH BALTIMORE, OHIO 45872
419.257.3561
FAX: 419.257.0332
WWW.DSBROWN.COM

	ITEM	QUANTITY
LOCATION — VT ROUTE 30	-	-
BRIDGE — BRIDGE 93	-	-
PROJECT —	-	-
F.A.P. NO. — BRF 015-2(10)	-	-
P.O. NO. — -	-	-
DESIGNER — VANASSE HANGEN BRUSTLIN, INC.	-	-
CUSTOMER — W M SCHULTZ CONSTRUCTION INC	-	-
	-	-

DESCRIPTION: VERSIFLEX ELASTOMERIC BEARING
RUTLAND CO., VT

SCALE:	DRAWN BY:	CHECKED BY:	DATE:	BRIDGE SHEET:
N.T.S.	CMM	EAK	2/5/2015	-

PROJECT NUMBER	PRODUCT CODE	RELEASE	SHEET
46246	1103	1	01